



LINE MATERIAL Airpo

burg, Pennsylvania.



In the field of his propulsion, Westlerhouse je: Engines . . . pioneered in the U. S. A. br Wordsahouse . . . contribute terme metally to the Every orgine embodies over 50 years of Westconsist muchinery ... complex dependability and simplicity of design. parented to height yet an orthand.









"She's all warmed up - set her on fire!"

There are foreflow would at the Kidde provine grounds, where we drifteestely start doubles for a high-speed elipetreum.

enrine from hy the handred. What's more, we start them in a course word that With a noir of B-26 power plants set up in tenders. The propeller of the fourt corine sends the "slipstream" back through the rear macelle, where we start the fires. The controls a slear year of the farmer.

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Walter Kidds & Company, Inc. AVIATION WEEK, February M. 1949

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EDWN A BORBONG & SONG COMPANY

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Headline News

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New Products

Air Transport ..

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Edware 14 1999



NOW IN PRODUCTION AT DOUGLAS

characterise the powerful new temper fielder new helps built by Bouglas for the U. S. Navy. Christianal FID Skylmicks, the typicalise combut creft is designed to copin Filest carriers for 24-hour, all-invather operations. It is adaptable

to an attack fighter, long-range patral or recoman expenditure, or as a horseness fighter smart. The Shylosipia so,the newest at a long line of dependable aircraft built for the Navy by Douglas Aircraft's El Servicio ribet, aradesers of military mecraft for 17 years.



ANNATION WEEK, February 14, 2849





"...safely and with day-by-day dependability"

MID-CONTINENT AIRLINEST President, I. W. Miller, writes: Terroro's contribution to Mid-Confinent's agiety and operating afficiency records has been on important one - ever since we tooled our first eightner with your workerts bank in July, 1998. To the present day, your aviation gasoline and lubricating oils have kent MCA girliners flying . . . safely, and with day-by-day

more recepts who so many sirflers use Taxaco Aviation Products and Lubrication Engineering Service . . . why, in fact --More recover applies wider in the U.S. are four with Teners Aircreft Engine

Leads how Toyon can hale you express with errors efficiency. describibles and economy. Call the respect of the more than

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The Teast Company, Assetton Discasses, 135 East 42nd Street, New York 17, N. Y.



NEWS SIDELIGHTS

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The move to disclose the number of shows boubs the U.S. possesso-cather to prophers of Conserve or the solder - man to good a new and important further call the contractor over the use Ar-Both Chatreen Duck Libraries of

the Alasse Ferry Committee and See Brien McMahan (D. Carra) of Prunchus's \$15 billion defense program for the cowing year without informawithout knowing how more rounds of

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Transport Report

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AVIATION WIEE, February 16, 2949

AVIATION CALENDAR

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ANGLINERY USES are standardived right angle bevel year deives which are suitable for use in either manual or power operated protects. They are spe-All they spursed is Oblahow City Children of Octobers. cafeedly designed for the execuing requirements of the latest tions which require expectes. precision and darstellity beyond the limitations of commercial produces. Angignar units are of They 14-21-fround jobs confusion of LAS Event Asymptotical Society New Systems simple construction but com-Fees 18-74-A/SCS names ground ment-by New Open Street Principles,

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AVIATION WILK, February 14, 2569.

NEWS DIGEST

recent New attack hombers (XAL1)

FINANCIAL Continental Motor Corp. reports

INDUSTRY OBSERVER * Latest Posts & Whotney Waso Major VIII energy develops 4960 kgs. exactly one horsepower per color such deplacement. This setting in with water imjection at full combat power. Takeof miling to \$800 by and

not total on the R-thirl Ways Mayor until August, 1945. The new SR-54 whote recognisioner alone. · Convex officials are deriving West Coast remons that they are thanking

for coverage, ended metale studies in a promise avoiced by the comsels here presounly been sted out, for home specific research but the tacilities are bear extended at contractors ulset, after which tree the

Money Ascadt has of Wichits a completing tests on a new model (M1M2) with a 65 by Lorening regar replacing the Couley ought Production on the Couley-powered Morner improvement has been

successor the nower output through me of a real blower

Viscount has received its official presidentes es elevaters and stabilishers, and factors to laser, fittings and fifteet of the * Transcours Air Liers, Oxidend, Calif., has prophered controlling lettered

oncern. TAL will require the few's 14,000 up ft. of leased four-pace at ptice. Radolph Lender, femerly a pretice on OAES, will be penident, *Referencing of Enigh Assort Co., builders of the Tropin personal

· Nurtheo Aircraft his passed its new XF-99 all-verifies fields the "Sorgice," following up the line of lethal ametricky which bears with the F-G1 "Black Widow" Northeap has adjud a doubles decad heel sions the union mer findings behind the empty is warm order over Faute at it a readfled service of the

MICRO Precision Switches Fulfill Rigid "AN" Requirements in Small Space

signs where components must combine positive, dependable performance with suppose economic of size and weight Selection over the namer MICEO recovery switch to men-

the specific demands of a passpolar application is simplefied by the men than 3000 shapes, sizes, weights, actustemand deem of characteristics which MICRO SWITCH





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MICEO LMD-1 Houses MICEO ST-R31 Soule Switch



Die Cost Endored

Congress May Settle for 57-Group USAF

House committee set to accept fewer than

70 groups; Senate expected to go along. Catalol Bill answers set to settle any such as leverhowner the nevent for the Sen Burnet Markett (D. 5 C.): committee, headed by Rep. Gauge Mahan (D. Tex.). The subsusceptive Sea John McCleffer (D. Ark.) district the legislation for action on the

Orl Venes (D. Ge) of the House pergram, to be neighbly phoned the models ground See Styles Bedger (R., N.H.): "I "intofed" with an \$500 million totook the lead in pushing for the 20crosse in the 546 billion allocated. Group Air Force list year, and I know 4)-Group praction. The SSOI wellion. P USAF Bill Assayed-Noncourt Military Transact (not likely to be settorned by Coentral, would provide strength of USAF at 70 groups, levely-

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NEW MODONNELL FIGHTER PLES Fine Style place of the McDonnell XF-51 of Marrie Prevent by two Westinghams worker McDanell tot plot fice LG be to the "letter fice 700 mpb" size. If

Plan Anti-nationalization Fight

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TAA's standard and influence. ATA *Les Apprenament-Desgration of former Ren Classect Les (D. Celei)

hole our if the control or the MEAS was designed as a long surpreparation. For restall Asks New Air Power Concept

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XF-C. Basegh we of a 59-th decreter cell is solven; conto, chaits is fully open obbox remediate was disposativeful at At- as short a short in track down four man scool sukus fight. These photos, takes is stored internily under the tail of the

XB-47 in New Speed Conquest

Borne's jet bomber flashes the 2289 transcontinental miles in 3 hr. 46 min, on "uneventful" record flicht.

A new smallest intercentmental City Jen 25, 1946 Council averaged

New Policy-The signise was the The flight win made between \$2,000

Andrew Field tower at 13,500 ft Nex Sitts-Bath Men Schlech and

New Target Date of May 1. The Hoper Commission's

struction agency before trenct dute as



Ryan to Sell Navion at \$10.965

Four-placer for 1949 embodies new features, among them more power, streomlining and radio equipment. Promagof \$18,565 for the new \$949 challeng rate of clock audioster. Powered with a 205 kp. Continental first in making of an extent section, and cogne, which gives in receive of 30

powerplant, the 1949 model has store used the full 45 deems levered re-Minter-central knob is dispend on channel VIO transporter and were provide an study of compact. More studies a sometime seas described over these

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P Other | businessesses - Denuments

Jones Talks on Airline Financing

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Airlift: More Tons Than Wartime Hump The Berko striffs has now delivered

USAF, Navy and Repal Ast Force plants delayard 177,951 tons over the The first years was in the White to Bedin so the first seven months of the selft USAF plents delivered 750.

► Topper Femidown-USAF and There may be too much competition over many motes," the CAR

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These Copyrig western are besting our of 1s. minde. The 14,000 is invalided the tree 21 this proofes books control in the dropped by the B-16 on Marco in double Pr. Worth to Mosso, Calif. Note the are a specially rigged Bodine E-79 on on Art call book folly repeated for the \$5,000. From but but somer

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HEADLENE NEWS

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HEADLINE NEWS

PRODUCTION

Iewel Bearings AMC uses need for U.S. maker in case emergency

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General Electric Co. but delivered



Rosa Nances being built for the U. S. Arr server. Rosa has a contract to held 1975 paratise waveflow before delivery to the or light even and frigon stores.

Afficiency Aviation Service Co. Los and manufacturers for a 2000 hr school Air lades are smoog early customers ip regres to Douglie Ascraft Co.

Microspolo Hoerywsk Roubton Ca. has street a new \$400,000 restort

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LETTERS

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More About The Wine of war applied, autoriols these both

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Northean Assemble Inc. "2nd Class Travel"

"Invol" such as promises or DeLane. No one is, the country likes to go recond-clean

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No 'Blues' In Wickins on Wighest previou activities. Having been seem there drys when so many people use grune the bloss. . Dagotalistos de construcig e tar mendously introsting encourse. If it one enters for when it arrives at our office as

HRP Is Standard Conter

on many replace I believed it did a great However, was stated that these coverbases

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Mario Personne

ENGINEERING



Versatility Highlighted In Aqua II

New amphibian design, based on prototype Aqua I, is 6-place model for transport, cargo, rescue services.

eped by a postwar company in Williamsby Acusfield, Inc. A high went, thirdle peer, 6 nasswaper Only major difference between the ► Market Densard-Ages II drugs fol-P Cable Details-Forward of the curion the market far a madium-spiral, athlity are no seen record to owns, with a Deschapped of the new analysism net a problem because a vide C.G.

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New Copter Tests Pulsejet Power American Heliconter's XA-5 built to evaluate engine's

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shahed in less than 5 year. by seplecting At possent, developers of the XA.5

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Conventional marking well-law of

& Maintenance Country Franch is two The engine's conventional metal med Veloc determinates in indigwel law a Appearedly the only engine mainte-

Other members on the XA 5 race prove to be relatively as simple to that The indicator low production cost for the coster and gives autocat to and man of \$1000. Admittedly, costs

"In sweethe production a palacit

10 Years of OUR FIRST YEN YEARS AGO the first hydroelic developments were sherted by Bandia in this madest halding in Enchool, Calformin Thes brown as Band's fainting 144 this escapitation her become one of the mojer sources of electroft hydraulic equipmost end has picewood more entitlending developments. The present 130,000 severs foot plant of Spelic-Pecific at Harth Adlywood, is shown on the opposite page. JANUARY STORS ANATON UP, a whole sense subsection of femile develop from JULY MANY ESPANSION provided room to enlarged anginesing department JANUARY HEET STEERING 19000001 designed and built of Bendis Arielles bid, was APEL INCOCURNG WOOD MATER to use type profession abell resembles new worldy MOVEMBER HORN HOLLIWOOD PLANT WIS 130,000 upons that mendecleding one TEACHER CONSCIONITY 8-06 Men hereing per ophesion designed and bull by JANUARY SENDS AVAIGN 172 houses Profit Street, Sends Andrew Coperation MARCH MANUACISE of 2000 bendu divigued AN registers per most gradue. JAMUARY PHEJANIC CHINOMS and high presum reservoir designed for business Publicated Problems and the process of the process

Hudraulic Progress

end Punging to replace or gived any protect on IPC 4 and IPC-5 expires

DECEMBER VENERS INTO START VALVES designed by Bendin ecognic for Benny # 50. NOVEMBER PRESANTS SOCIETY made country for funder strained



















The five trydroutic products shown obever Indicate problem Offices in New Yark

Pacific Division Bendix Aviation Corporation

NORTH HOLLYWOOD, CALIF.

Smoke Detectors Under Scrutiny P Burine Weight-AHCo exputers es make that a reciprocularly extract bown punels' green weight would would ap-

follows a conventional pattern. A

The sew propertyl machine is a nearly not designed for such an application. While the "Toy Seyent" is Amen-

P. Scrudflich: Adjusted Six Areas to John development of mechanistic driven and reliabelity contributed by reducing ce either the photoelectric cell or aunot order orientalistics of the units on represent word house! facilities Bored charges of AMCo is Pari S.

ABCs's receivert. Corner Denger. ferretty was prejust officer of Roters Other messgement officers are John A. White propher because and com-

when dost or maintury condensation bound on refficient numeration and ordinar Newsell, N. L. and Walter Balde & Co.

Months of communication with a DC-3 for \$36 hr, with an assorts of coucle detectors could be sighted brone. in on a 14s COTwo company amount detector without now advantages, and

Airline studies show that reduction of conditivity in

devices will give fewer false alarms, still be reliable.

s new base A-4 cast on a DC-4 has appear ners also have buil twobledge ones. six Kadde nerolar detectors have unusated detector. Twenty four Knide and be-P.Cohen Manuelle Detector-A cur

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AVIATION WEEK, February 14, 1948

NEW AVIATION PRODUCTS

High-Altitude Relay

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Explosion-Proof Heuser



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Simple A.B.F. Computer



Electromode Corp., 45 Creath St.

Nylon-Pile Plane Carnet



Portable Short-Cutter

WHAT'S DOING

at Pratt & Whitney Aircraft?

Froguently, people ask us, "What's doing at Pratt & Whitney Aircraft?" In is a thought-provoking question and perhaps you would be interested in some of the answers. Through measures like this we have to stone with you some of our aims, some of our problems, and some of our achievements. As you know. Pear & Whitney is in the business of producing horsepower and thrust. It is highly complex - this work of designing, developing, testing and producing agerraft power plants. Even long after an engine has reached the production stage, a corps of engineers is hard at work refining its desires in the light of the latest knowledge and experience. Simultaneously another group of engineers is concentrating on the engines that will be put on the production lines tomorrow.

As manters stand today, we are hard at work in three major fields, First, we are delivering the Turbo-Wasp*, the first turbo-ict engine to hear the farmers Pratt & Whitney embless. This project involves an entirely new set of problems and responsibilities, since completely new production techniques are being developed and proved. This engine is designed to power some of today's fastest fighter aircraft.

Second we are producing and continually refining the Pratt & Whitney reciprocuring engines which have become known the world over for their depend billing. These engines will consiste to power the language loadcarrying aircraft for a long time to come. A new member of this famous family - the Wasp Meior-VDT - brings to it some of the advantages of turbines while remining the advantages of the piston type.

Third, we are devoting hundreds of thousands of man-hours of engineering to the design and development of new turbine types to meet the needs of America's future airphaes, still shrouded in secrety,

To keep all this going on smoothly, thousands of our employees are engaged in production. Other thousands are busy in our various test sections, wind morel experiments, flight test activities and field service branches - all contribution to the hum of activity at Pratt & Whitney, all beloing to make our engines the finest that engineering skill can produce.



WHAT IS VOT? WHAT ARE SOME OF ITS REMEFITS? A nisten ensine? A tenhine? Combination of both

Mish octone fuel?

The first investigation of the Warp blace WDT in its the

WHAT IS THE BRESENT STATUS OF

THE TURBO-WASP? Design stone? a series also arrower in ... all floor. The Yorks Wood has in a fewer are among in ... it four the furth way has ground an official Newy 1323 hour type mer and regime are rooming off the predication lines. At the latter hand, and memory FOR WHAT WILL THE NEW TURBINE LARGEATORY RF HSFO? Producing turbines? Testing turbines? Materialet

On the Bank of the Consequent Rows, our fac from the many

WHICH OF THE NEW AIRLINERS ARE POWERED BY PRATT & WHITHEY?

Doubles DC-67 Larkhand Canstalletion? Rosina Stratograiser? Mortin 2027 All but the Controllection are neveral to Press & Winner

partitioning — both American and British — are powered by dependently Poss & Wheney organi



EAST HARTFORD, CONNECTICUT

ONE OF THE POUR DIVISIONS OF ENITED AIRCRAFT CORPORATION

FINANCIAL

Trusts Shifting Aviation Shares Year-end reports reflect growing activity, but more time needed for full sale and nurshase evaluation

With the classe of at least a full The incertaint porticle of National Avention has a total cost of \$5,255,0 Completely devoted to anotice in interest. As of Dec. 14, 1945, total meets of this first provinced \$0,592, one development The Lebrary Corp., which his date Daries 1965, Nyteral Aviston

see to the issue to \$1,000 shares P.Offer Inconnects-Arrest and an 11, 1946, a prin from the 33.4 percent shown on Duc. 31, 1947. Action one metrospin shoul at 34.6 propert at the Assertin, beinging holdings to 10,500 shares and 1500 shares of American Surficent Innestries by National Avunco included a block of \$205,000 wand to holdener of 29,800 shows a Purchase and Sale-it is not macon-

Industries in solbing 8000 shares of Vational Assistee to purchase 12,000 American design the fearth quarter, re-Theirs and 7500 shares of Chicago & Other have balders of Eastern aslaw national Security These two investment fronts PARTY.

JI SHI BAR 5000 BAREN 15500

OO CARTON WARNES COMMON SHIP

held a total of 42,000 shares of Eastern er of Dec. 33, 1945. Such montagents Affiliated Found, as of Oct. 1L 1941 should halding of \$1,000 sharp of

American common and 6000 perfected Trade Sponsored-A number of un-

(subtried in parenthenes):

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reports heldrars as of New 10 1946.

SALES & SERVICE



Paper's 1949 feer since Glauce, Faculty Cooker and Version

Piper Launches Its 1949 Line Distributors pet preview of ten airplanes as company kicks off new selling season; variety the keynote. By Alexander NeSocile

P New Timeer-Soil in the offing is a speed and variety see the two main ► St. Difference—The new fear-place PA-16 Clipper with 115 to 1,000x, or mains, which offs for \$3000. Societies.

A new superved Fundy Cruster, orgod at \$1005 with similar course. P Two Plants. Then there are the two

as the 1949 Steroon which were the which held that place for the first month of 1949 according to probaessi: Comes

Mary Style-But Paper engineers have some engine for \$1995 (stall the lowest The office down percedury is not diffi-

BRIFFING FOR DEALERS & DISTRIBUTORS tuess are going after the agranitional spraying and charling model with

mileston to two respons of the 90 ho. PA-11 tradem trawer equipmed as a spearer or deater, priced at \$3345 Symon Lock Haven for orther Art Whittakes, Piper distributor at Perliand, Onc., who has been makhas during and appears occurred for Cabs, will sensis the same tanks. Concettor with the Piper sprove is an alleseted Laureaute 50 hp. Observer, perced at \$3555, forwar Duller, equipped with spray mate monatorized by Independent Clop Dutres, Compbell, Cald. The Observer sprayer in ferred with new high-lift sing flaps, a McCanley Mető. Poo. Safe Flacte stell scruter indicator, chest homen red ever sized (7.00 x 6.00) free. Two 30-pit self-aginting was sawy tacks and two wouldeness speen units are provided. Spery rate and cetoff to contoffed in cockett. Learnaghe propers studies sured in 40 such never on with full flops, and operating speed stage with full flops in 50-90 raph. At reconsuceded error sperstar weight of 1900 to the Louvenile author someout of equipment except for speny tento, for greened willis uses in oil Page lot a small bend start on Lescourbe, so to CAA second. Lanmake home object to produce appoint that are other 50 has present and claims that new design flops direct off speny toward the ground mineusures, making popular "a better kill of weeth or reserve with less shows. and thus can be obtained by one other type of fixed wang apaying

Learning respects to "dust assentity and action immediate), following labed see how the collision of the County 140 and the County fation ness Mitchel Field. L. I hampened. Most press accounts seemed to take good croson that we could see for such an assemption. Actually it is ing as both for a behavior to come related up with a bir transact conting, or for a little creater to argae with the Queen Elizabeth. But the very status status at the light place give point as two assistan-darth of the two occupants of the light place give point as two assistan-nesses a salar manning divisor installed in large transport seconds to took cets observables of other attents which exceed he quarted vondy, and adultural amphases on afertions by pilots of small places who have remark subsides and nonexpensions to send such collection empty of

MORE ON MIDGET MEXTANG-Up at Lock Horn list work Dave Lour, builder of the Middet Meature (Avancian Wess, Jen. 17) reported he had flown his Stife of enetal anaphaser back faces Minus averaging 170.5 mph. for the 1125 miles, on 41 get o feel. The deal to will the sentutive place equated in our earlier stars, was not completed. but Lane is used in hopes because it gives him something to demonstrate. while Schweiser is tooling for the first five production planes Long has put a price of \$4995 on the production Motort Movimes. with a \$1000 doors recover for a few rades One has been some paragraph for a term coses. country cracked: "The plane's bigget render will be with business own who want to trivel fee, light and sloss. The extu people make you lete starting and you have to make natur stops and \$21 up voor simbles. with their lawrer. With this ship you dealt have to have swhole." BETTIS FIELD CLOSED-Berts Asport first commercial fring

and S. M. (Sign) Carrached, new persolved of County Aellines, once few runt and passengers from this field -ALEXANDER MISURILY the back start apported conceives crowded Period for the Cloper is 800 lb, only 15 lb loss than the pay had for the Cream With 10 rat of of side order at consume mond of 112 P Resease Utility-Actually life of bet curry floor persons with hermics and larger and less for load. But its greatest welclasss will be as a beautiful and loggics speed, with the added can sengers where it is needed. Rear acut

a quickly semonals, and rear door h theke Voter. The Clover bredle. ancely with four people. It lands at arrowed 90 week, a lattle faster than man province Progra, but sween to host dollar value for offite set seven is a 1948 Creater, and a settent that in Bean Housel's 1949 model. the capillest opportunity for comparng model changes. Man networks

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AIR TRANSPORT



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Lightplane Lines Seek Certificates Two intrastate carriers using single-engine aircraft ask CAR permission to transport interstate traffic

High out of properties forty Phanesest Pour Publica-Some to use heatedones over low traffic, short scheduled introdute flights primarily facil regions systems. Offernly of both

Sones Money Every Commissiongue, N. Mex. hour and the Attenue APC, Coro, during the 11 months Arricano and Houston From April, 1945, to Im. 1, 1949, Val.tie curried

PAN AMERICAN GETS STRATOGREISER DELINITIES

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either No 1, 2, or 3 feel of at the rate of 50 gd on hour The mechanisms above the region, and the temperature. Flying Boat Sale "The perfect of combine are: tried " according to Johnson "The Northwort asked CAB to elements



Weed Burner "Sands" Runway Ice Device lessons "no-traction" hazard by melting ice which has been reconcred with a layer of sand.

called by a field tractor noth one man race were used on the studies track

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AVIATION WEEK, February 14, 1860

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renke to possible for "go-shop" and seagers to travel by air of nearly ground speared assessment Pertland-Aurusta Coursel May, \$156 command to the west scheduled stop of the flight ou

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AVIATION WEEK, February 14, 1949

a 16 cents an hour successe after origin mily demanding 25 cents (Avvarien-Wars, by. 31). The new apersons aftern 4500 warium and is retroscore the highest in the airline industry for

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AIRPORT DEPARTMENT Peatt & Whitney Aircraft

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"At one suport I am opposited by a very tenorit appearing young lady

AN AIRLINE OF PROTS-Con one other meline boost or passy palets among ris executive fance in Chango & Scottors? Laux E. Kell, polike relations owner wer, in a lacened palot, owning and flowe hat own Stevens Verlager, and Kell T himself has held a previously many 1935, and has about 7000 hours to his could

SERCIST SATINGS, BY HIRAM-We didn't know the colone had no strongers hierted out that Hears Widon Sheetler's contributions have replan-

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bose finger at loss and demonded. "Young rate was get book up in that WHO CAN ANSWER THIS ONE?-Boose Burtlank of About F. Adens & a bose. If true, it might make good making " (We think it already has)

WHAT'S NEW

New Books "Teads Made," by H. Bernett, tech-Schoonson on X-Key Street Analy

sis," with subsect rades, by Fleshert B.

New Films of Shick Agency, Inc., San Astronia. "Homes Factors on Safete." for on a

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EDITORIAL

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them for more modelie in failing fasts, good or bad, and study to stand or field on fleel weeks, and their public strakes, without preconnect and

—ADSERT II WINDO The "Indian Rope Trick" WAS NEVER THIS SLICK! U. S. place builders are community covering up with some the overwhelming majority of U.S. plane minufactures. peruso Arcents Tobing is preferred for eigene mounts, SEND FOR armanne ostuco Siles Office non. DESCRIPTION OF THE PROPERTY OF THE PARTY OF

the inside story of a MIGHTY ENGINE

Here's the engine that enables airliners to span continents and seas, making lands on the far side of the globe your nearby markets.

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